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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,397	01/23/2002	Shinobu Kayama	68214	3926

23373 7590 10/24/2002

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EXAMINER

MCCAMEY, ANN M

ART UNIT PAPER NUMBER

2833

DATE MAILED: 10/24/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/052,397

Applicant(s)

KAYAMA ET AL.

Examiner

Ann M McCamey

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 January 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Drawings

Figures 6-9 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 1-7 are objected to because of the following informalities: "height" should be changed to --length--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Applicant's Admitted Prior Art ("A.A.P.A.").

Regarding claim 1, A.A.P.A. (Fig. 9) discloses a method of attaching a board connector, comprising the steps of: positioning the board connector relatively with respect to the circuit board by inserting a tip end portion of a positioning projection

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protruding in an attachment direction from an attachment surface of the board connector opposing to a circuit board into a corresponding positioning hole provided at the circuit board; inserting tip end portions of terminals protruding in the attachment direction from the attachment surface into through holes of the circuit board; and fixing the board connector to the circuit board by engaging an attachment arm provided at a side surface of the board connector and extending in the attachment direction with an attachment portion provided at the circuit board.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 2-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang et al. (US 6,083,044).

Regarding claim 2, Wang et al. disclose an attachment structure of a board connector, the board connector including terminals protruding in an attachment direction from an attachment surface thereof opposing to a circuit board, said attachment structure comprising: a positioning projection 4' protruding in an attachment direction from the attachment surface, said positioning projection having a projecting height higher than projection heights of said terminals from the attachment surface (see Fig.

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6), said positioning projection being inserted into a positioning hole provided at the circuit board prior to insertion of the terminals into through holes; and an attachment arm provided 4' at a side surface of the board connector and protruding in the attachment direction, said attachment arm being engaged with an attachment portion provided at the circuit board, whereby the board connector is fixed to the circuit board.

Regarding claim 3, Wang et al. disclose a groove is formed at a tip end portion of said positioning projection, and said groove is split into at least two pieces in a longitudinal direction of said positioning projection, and said tip end of said positioning projection is elastically deformed in a radial direction of the positioning hole when said positioning projection is inserted into the positioning hole.

Regarding claim 4, Wang et al. disclose the projecting height of said positioning projection is higher than a projection height of said attachment arm from the attachment surface.

Regarding claim 5, Wang et al. disclose board connector comprising: terminals protruding in an attachment direction from an attachment surface; a positioning projection 4' protruding in the attachment direction from the attachment surface; and an attachment arm 4' provided at a side surface of the board connector and extending in the attachment direction, said attachment arm having an engagement projection at a tip end thereof; wherein a projecting height of said positioning projection is provided higher than projection heights of said terminals from the attachment surface (see Fig. 6).

Regarding claim 6, Wang et al. disclose a groove is formed at a tip end portion of said positioning projection, and said groove is split into at least two pieces in a

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longitudinal direction of said positioning projection so as to be elastically deformed in a direction perpendicular to the attachment direction.

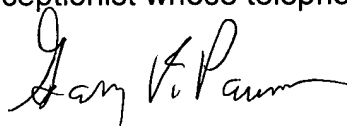
Regarding claim 7, Wang et al. disclose the projecting height of said positioning projection is higher than a projection height of said attachment arm from the attachment surface (height can be relative during insertion).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ann M McCamey whose telephone number is (703) 305-3422. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (703) 308-2319. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Gary Paumen
Primary Examiner

AMM
October 18, 2002